

PROBLEM-SOLVING SKILL**P 4-8**

Exact Answer or Estimate?

Tell whether an exact answer or an estimate is needed. Then solve.

1. The maximum weight allowed on an elevator is 1,800 lb. If there are 9 people on the elevator and the average weight of each person is 175 lb, is the total weight over or under the limit?

2. In 1970, the U.S. dollar was worth $3\frac{3}{5}$ German marks. In 2000, the dollar was worth only 2 German marks. How much did the value of the dollar decline?

3. A cell phone company is giving away 500 free minutes per month with each new phone. If the average person talks 15 min per day on their cell phone, will they have to pay for any calls during the month of June? (Remember: There are 30 days in June.)

Katya has a lemonade stand. She sells lemonade for \$0.15 per glass. Her pitcher holds 8 servings.

4. After one hour the pitcher is $\frac{1}{4}$ full. How much money has she made?

5. **Reasonableness** Katya says that if she can sell 4 pitchers of lemonade she will earn more than \$5.00. Is she correct? How do you know?
